

4.2.E. 0801020805.

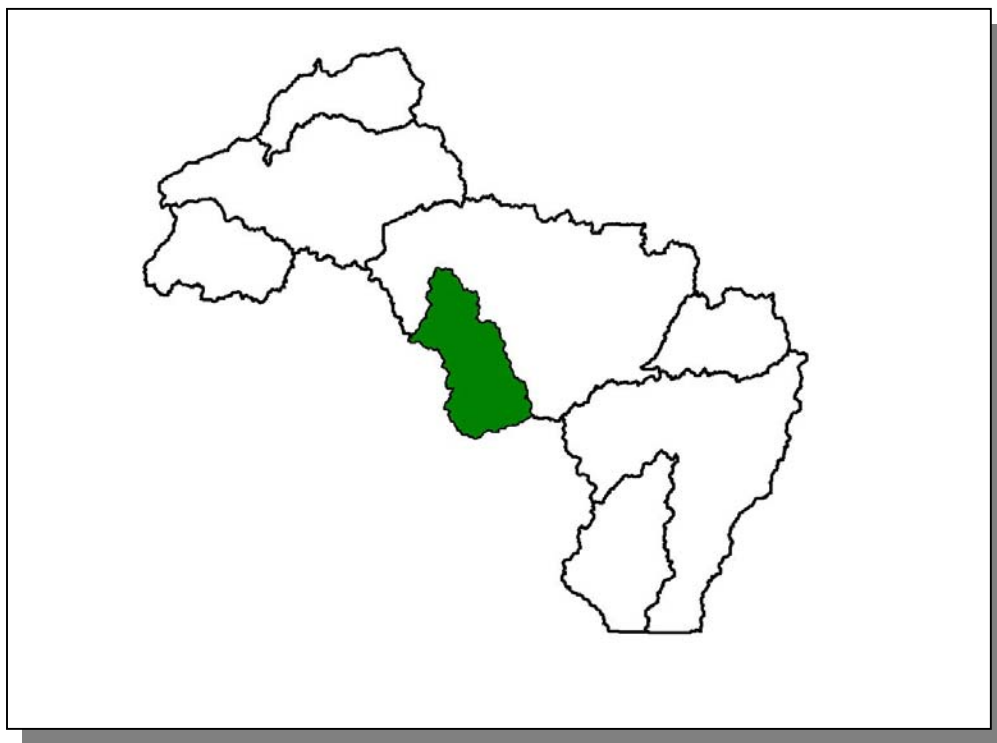


Figure 4-189. Location of Subwatershed 0801020805. All Hatchie River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.E.i. 080102080501 (Upper Big Muddy Creek).

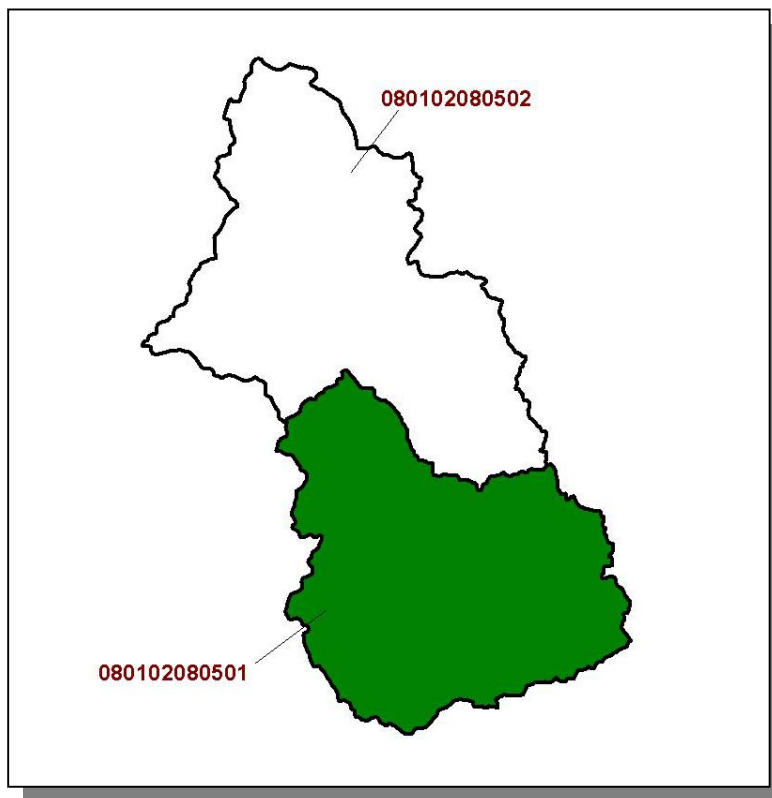


Figure 4-190. Location of Subwatershed 080102080501. All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

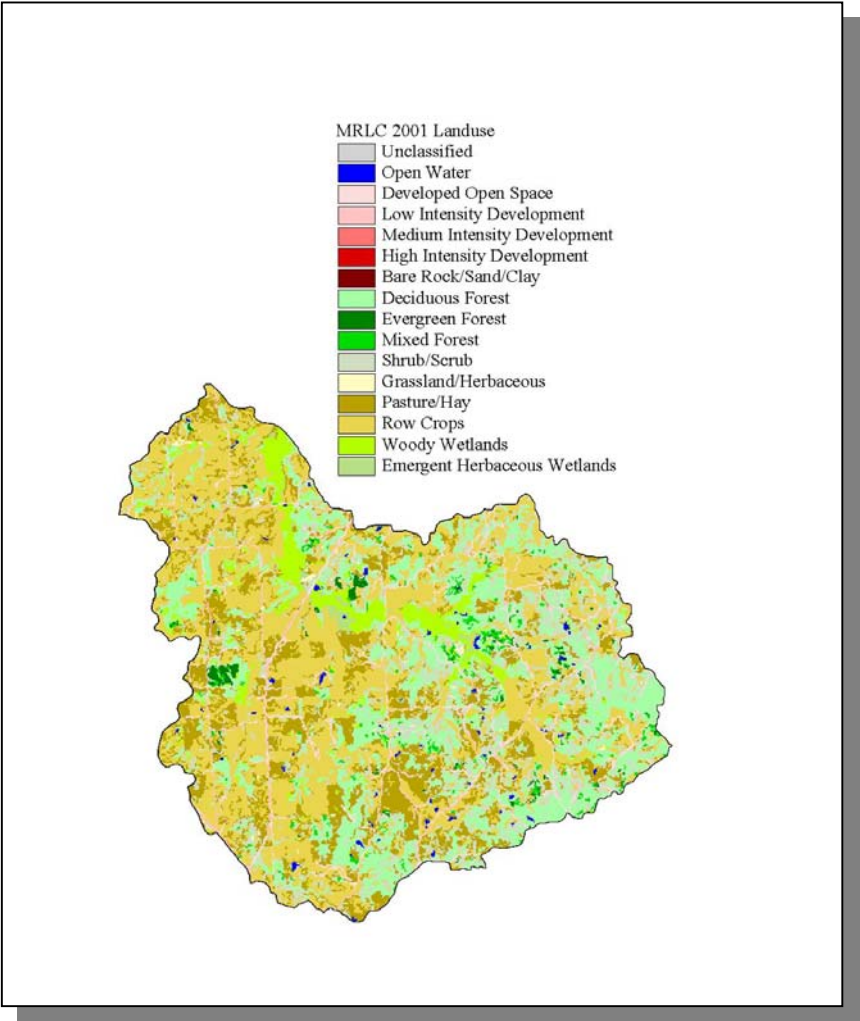


Figure 4-191. Illustration of Land Use Distribution in Subwatershed 080102080501.

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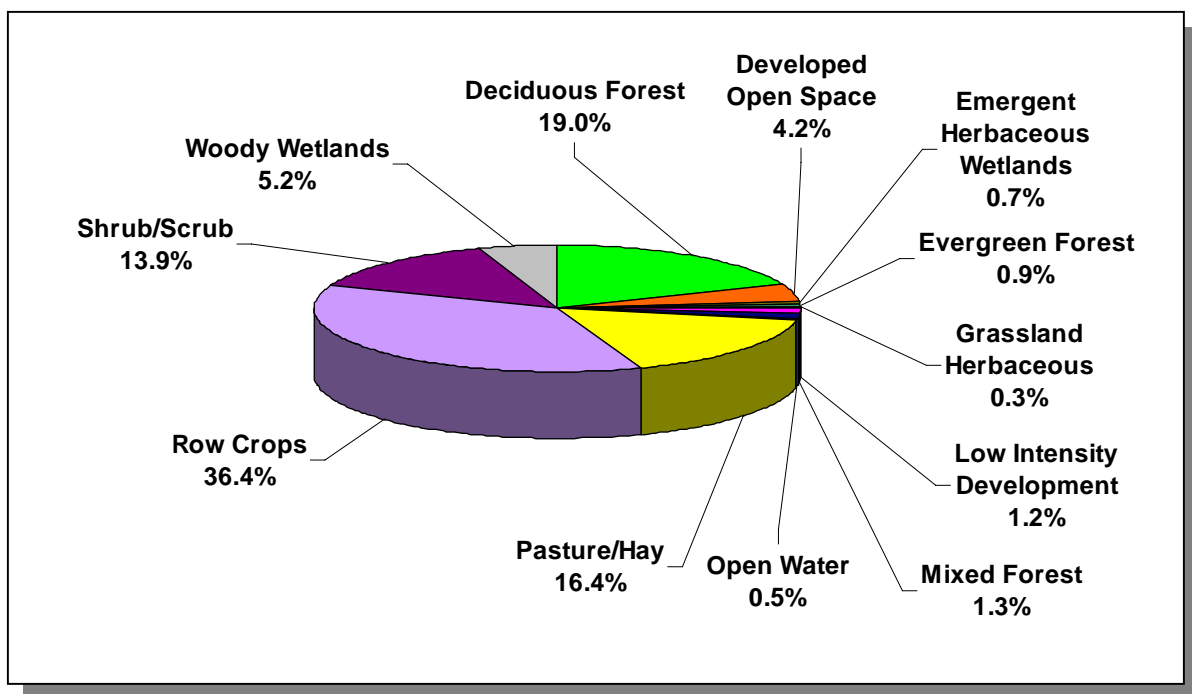


Figure 4-192. Land Use Distribution in Subwatershed 080102080501. More information is provided in Appendix IV.

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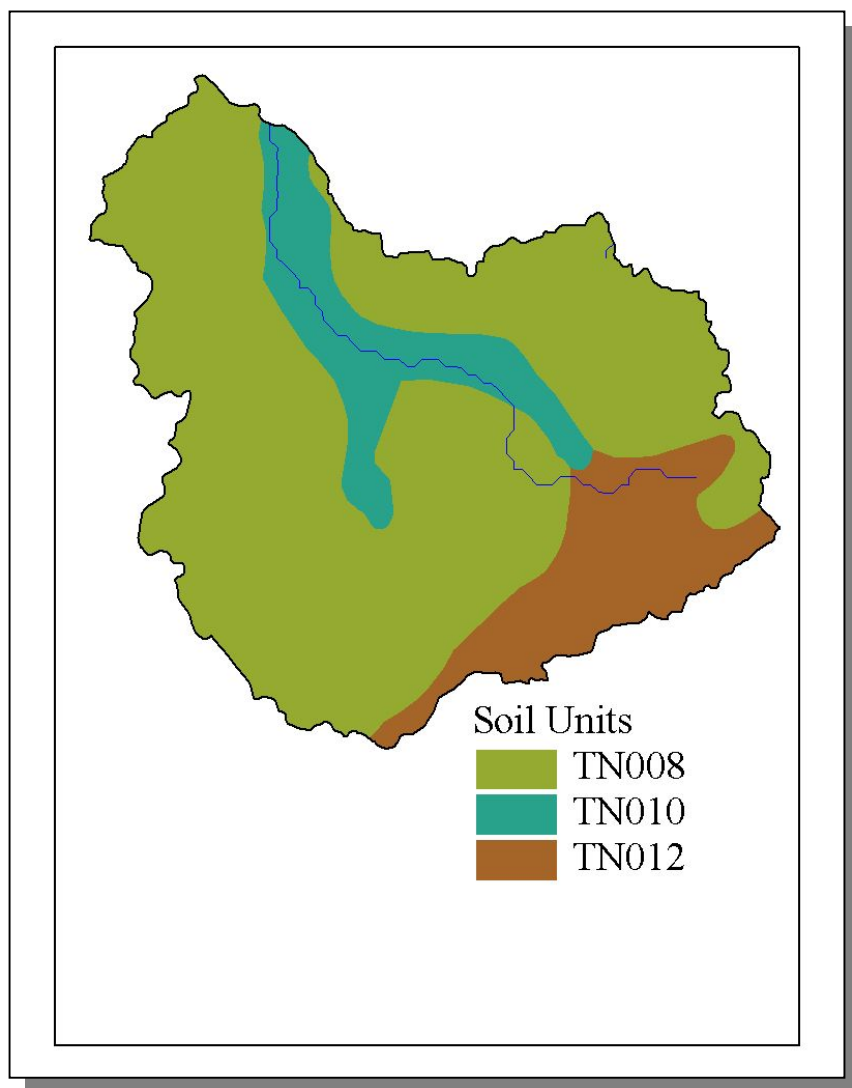


Figure 4-193. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080501.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN008	2.0	C	1.38	5.20	Silty Loam	0.48
TN010	81.00	C	1.33	5.11	Silty Loam	0.44
TN012	1.00	C	2.52	5.13	Silty Loam	0.39

Table 4-181. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080501. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fayette	25,559	29,412	28,806	6.82	1,742	2,005	1,964	12.7

Table 4-182. Population Estimates in Subwatershed 080102080501.



Figure 4-194. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080501. More information, including site names and locations, is provided in Appendix IV.

4.2.E.i.a. Point Source Contributions.

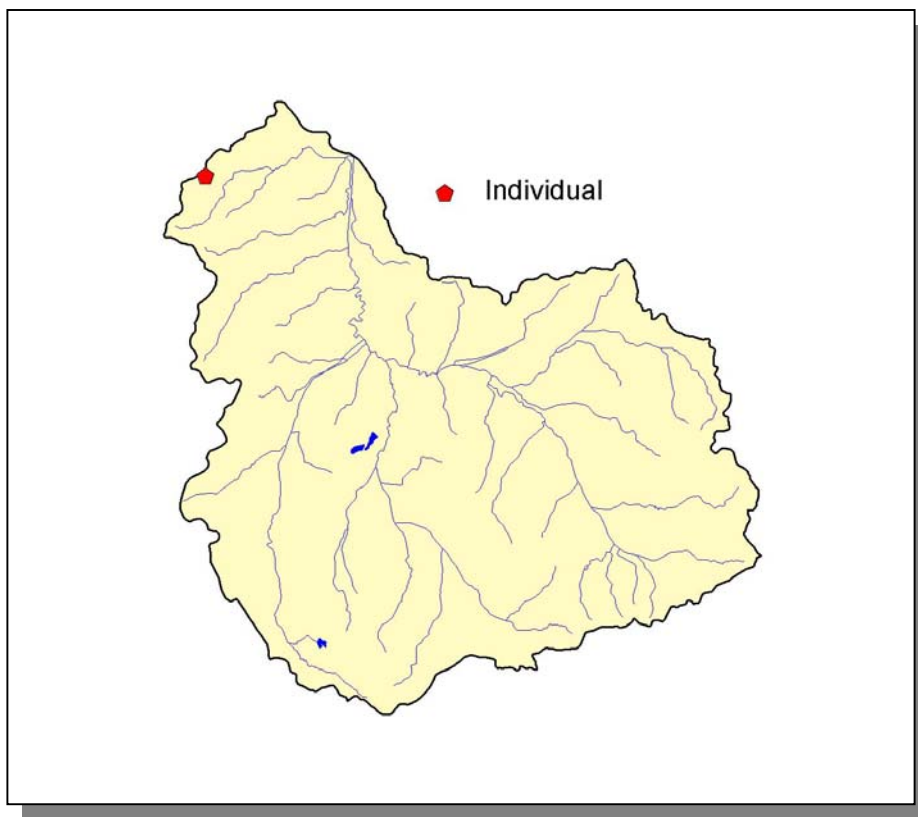


Figure 4-195. Location of Permits Issued in Subwatershed 080102080501. More information, including the names of facilities, is provided in Appendix IV.

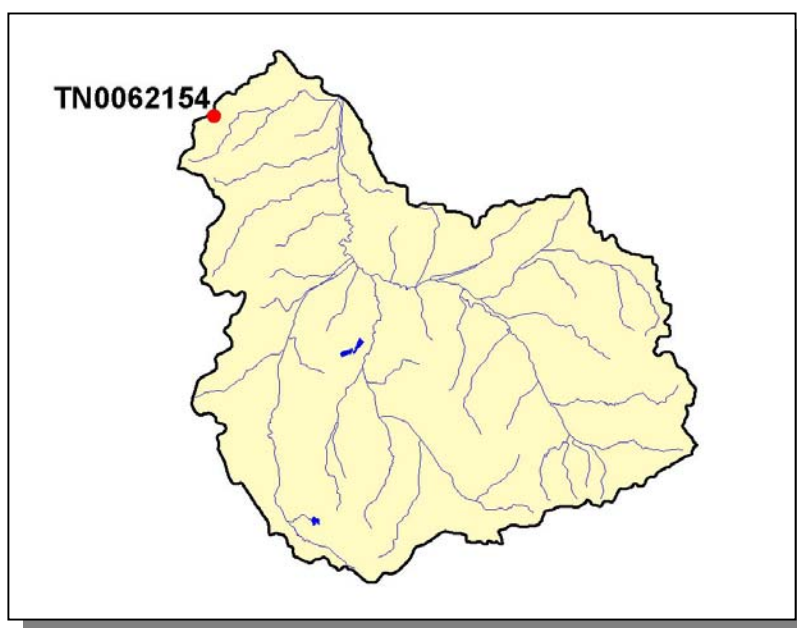


Figure 4-196. Location of Active NPDES Sites in Subwatershed 080102080501. More information, including the names of facilities, is provided in Appendix IV.

4.2.E.i.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 080102080501:

- TN0062154 (Stanton Lagoon) discharges to an unnamed tributary @ RM 0.4 to Big Muddy Creek @ RM 7.6

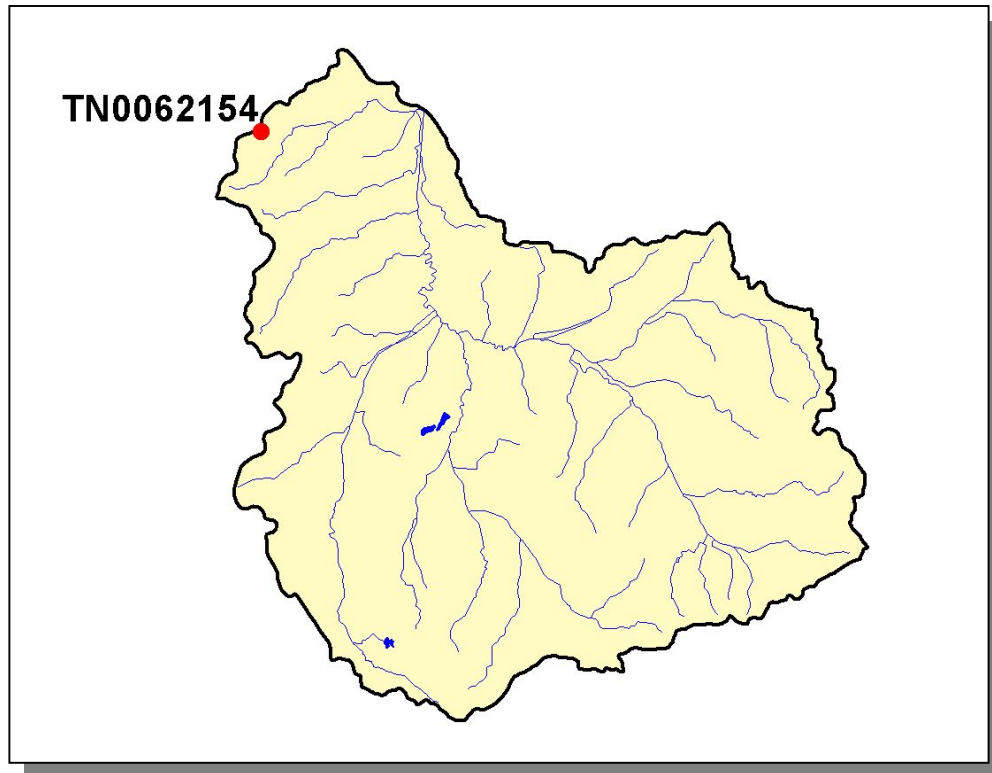


Figure 4-197. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 080102080501. More information, including the names of facilities, is provided in Appendix IV.

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PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0062154			6.85		

Table 4-183. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 080102080501. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	FLOW
TN0062154	X

Table 4-184. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 080102080501.

PERMIT #	CBOD ₅	<i>E. coli</i>	FECAL COLIFORM	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0062154	X	X	X	X	X	X	X	X

Table 4-185. Inorganic Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 080102080501. CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

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4.2.E.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,137	2,155	82	<5	2,174	11

Table 4-186. Summary of Livestock Count Estimates in Subwatershed 080102080501. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Fayette	13,421	25,437	965	15	15,667	124

Table 4-187. Summary of Livestock Count Estimates in Fayette County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fayette	152.0	152.0	1.1	3.3

Table 4-188. Forest Acreage and Annual Removal Rates (1987-1994) in Fayette County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.43
Grass (Hayland)	0.33
Legumes, Grass (Hayland)	0.22
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.76
Corn (Row Crops)	19.66
Cotton (Row Crops)	9.05
Soybeans (Row Crops)	9.86
Wheat (Close-Grown Cropland)	2.75
Fruits (Horticultural)	0.39
Other Cropland not Planted	1.50
Conservation Reserve Program Lands	0.45
Farmsteads and Ranch Headquarters	0.13

Table 4-189. Annual Estimated Total Soil Loss in Subwatershed 080102080501.

4.2.E.ii. 080102080502 (Lower Big Muddy Creek).

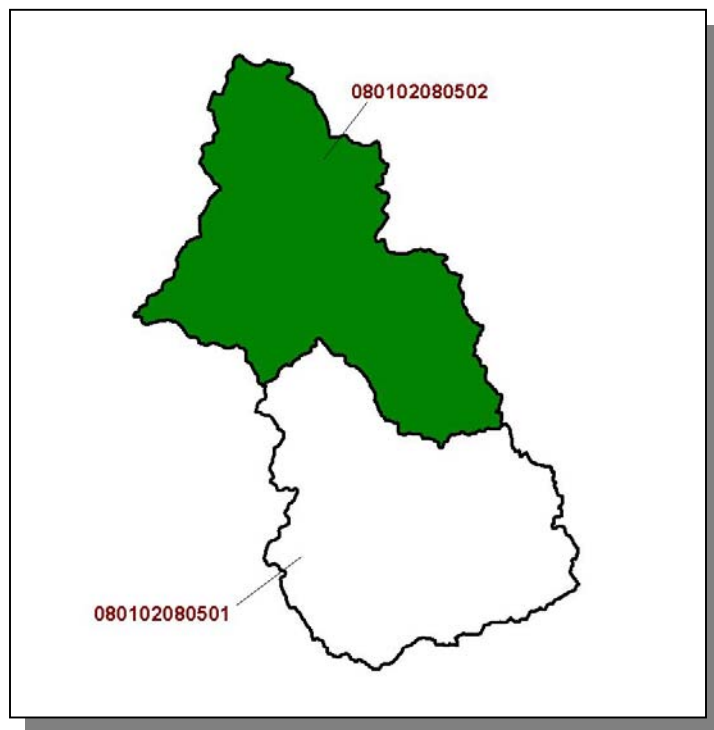


Figure 4-198. Location of Subwatershed 080102080502. All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

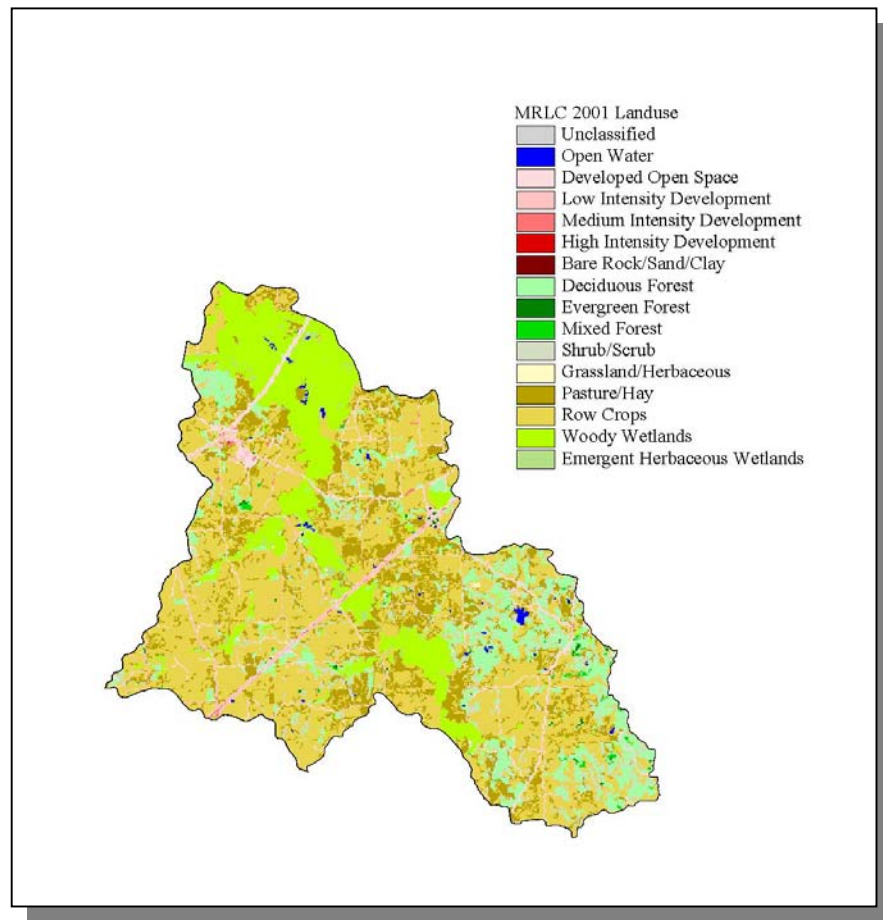


Figure 4-199. Illustration of Land Use Distribution in Subwatershed 080102080502.

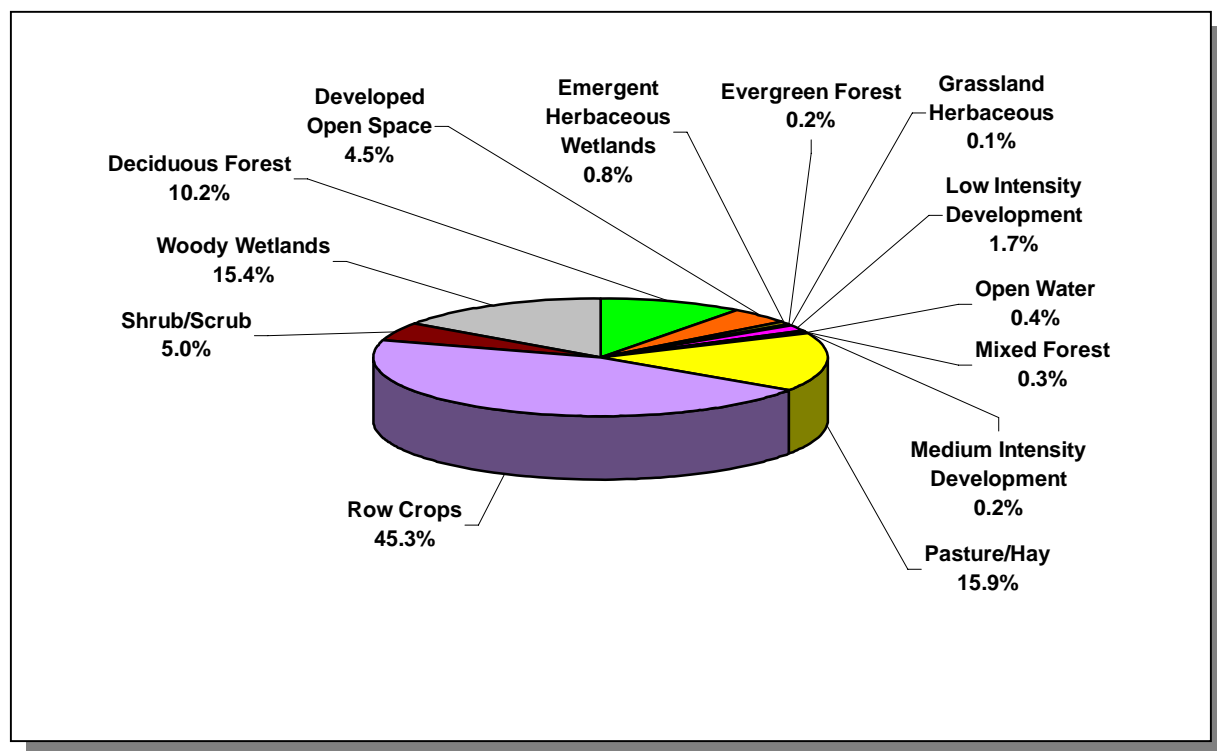


Figure 4-200. Land Use Distribution in Subwatershed 080102080502. More information is provided in Appendix IV.

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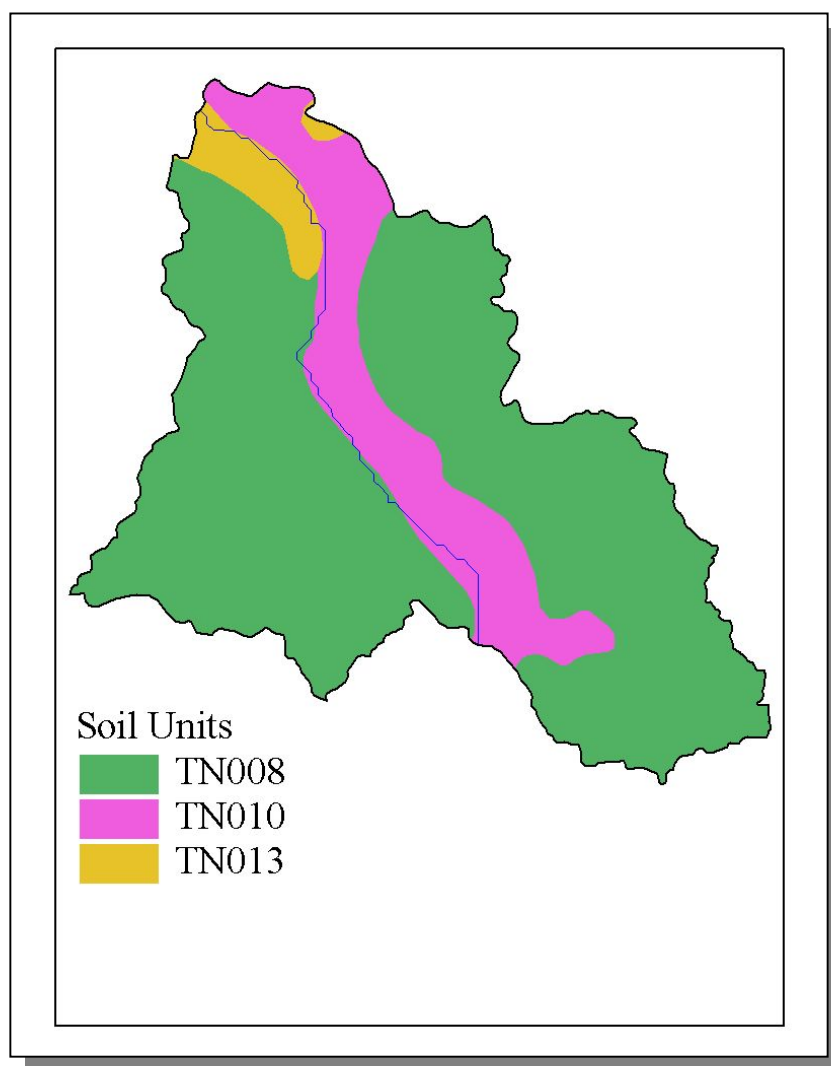


Figure 4-201. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080502.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN008	2.00	C	1.38	5.20	Silty Loam	0.48
TN010	81.00	C	1.33	5.11	Silty Loam	0.44
TN013	72.00	C	1.30	5.44	Silty Loam	0.46

Table 4-190. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080502. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Fayette	25,559	29,412	28,806	2.28	582	670	656	12.7
Haywood	19,437	19,709	19,797	6.29	1,222	1,239	1,244	1.8
Total	44,996	49,121	48,603		1,804	1,909	1,900	5.3

Table 4-191. Population Estimates in Subwatershed 080102080502.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Stanton	Haywood	517	223	216	2	5

Table 4-192. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080502.

4.2.E.ii.a. Point Source Contributions.

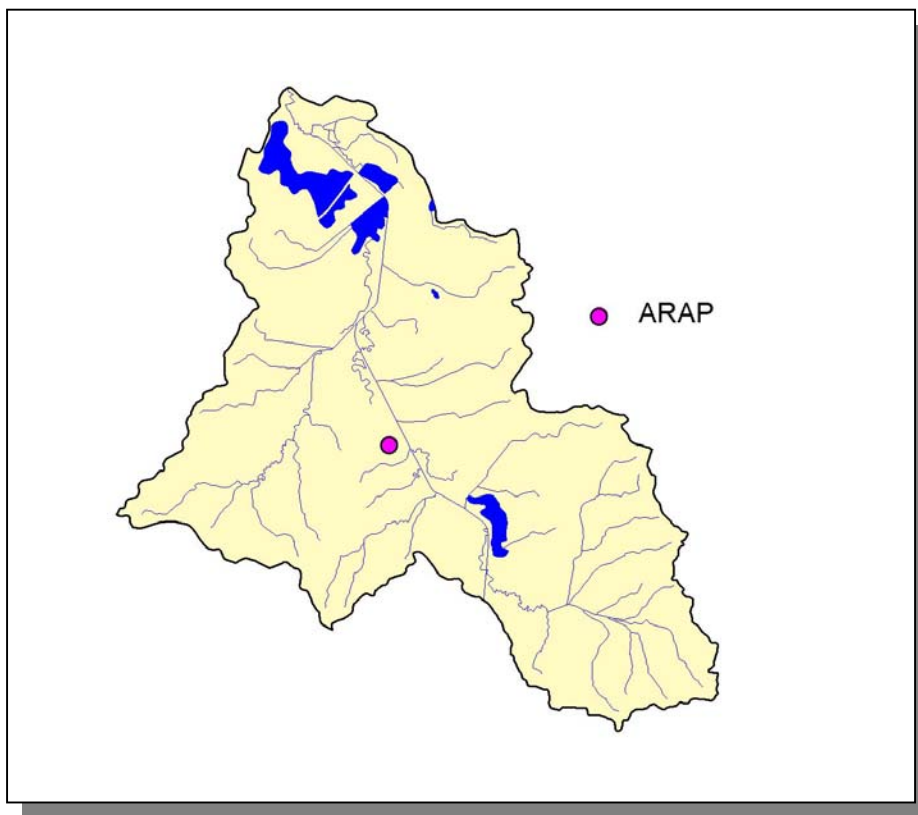


Figure 4-202. Location of Permits Issued in Subwatershed 080102080502. More information, including the names of facilities, is provided in Appendix IV.

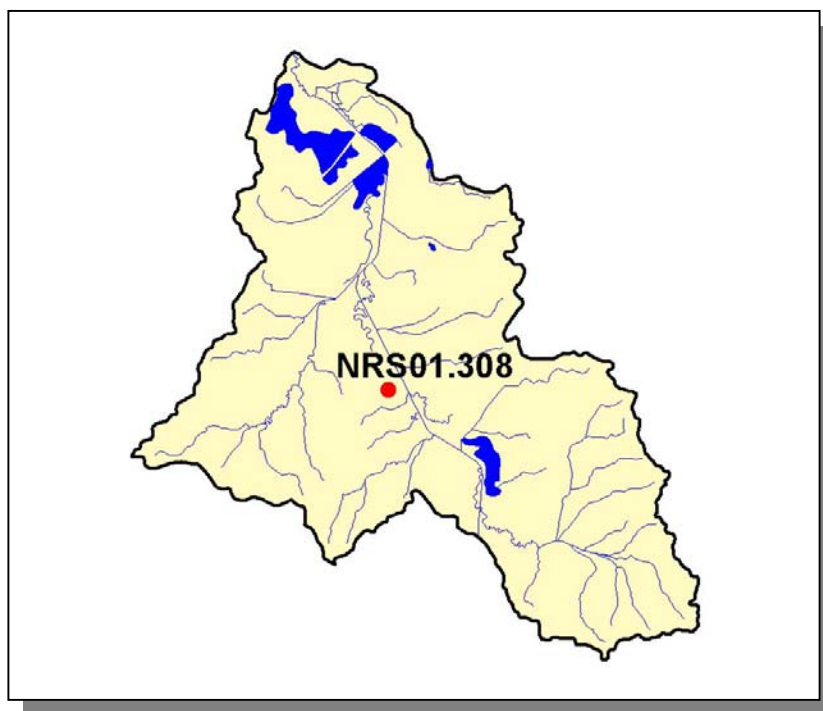


Figure 4-203. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080502. More information is provided in Appendix IV.

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4.2.E.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
549	1,023	27	<5	773	<5

Table 4-193. Summary of Livestock Count Estimates in Subwatershed 080102080502.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Fayette	13,421	25,437	965	15	25,667	124
Haywood	3,442	6,220	29	237	1,740	12

Table 4-194. Summary of Livestock Count Estimates in Fayette and Haywood Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Fayette	152.0	152.0	1.1	3.3
Haywood	71.2	71.2	1.7	6.4

Table 4-195. Forest Acreage and Annual Removal Rates (1987-1994) in Fayette and Haywood Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.61
Grass (Hayland)	2.62
Legumes, Grass (Hayland)	0.22
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.45
Corn (Row Crops)	11.35
Cotton (Row Crops)	11.40
Sorghum (Row Crops)	4.02
Soybeans (Row Crops)	7.98
Wheat (Close-Grown Cropland)	2.75
All Other Close-Grown Cropland	3.08
Fruit (Horticultural)	0.64
Other Vegetable and Truck Crops	4.20
Other Cropland not Planted	1.06
Conservation Reserve Program Lands	0.76
Other Land in Farms	0.16
Farmsteads and Ranch Headquarters	0.46

Table 4-196. Annual Estimated Total Soil Loss in Subwatershed 080102080502.